GENERAL

- 1. THE STRUCTURES ARE DESIGNED TO BE SELF—SUPPORTING AND STABLE AFTER THEY ARE FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE STRUCTURES AND THEIR COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF
- EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HWAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO WARATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.

Ċ STRUCTURAL STEEL

- 1. MATERIALS:

 a. STRUCTURAL STEEL: ASTM A572, FY=50 KSI; HIGH STRENGTH BOLTS: ASTM A325 OR A490; ANCHOR BOLTS: ASTM A570 OR A36; ELECTRODES: SERIES E70; STRUCTURAL PIPES: ASTM A53 OR A501, FY = 35 KSI MN; SQUARE AND RECTANGULAR TUBING: ASTM A500, FY = 46 KSI; EXPANSION BOLTS: HILTI "KWIK-BOLTS II" OR APPROVED EQUAL.
- 2. SPECIFICATION: WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS 01.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY:

 a. ASC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (LATEST EDITION).
 b. ASC CODE OF STANDARD PRACTICE (LATEST EDITION).
 c. STRUCTURAL WELDING CODE, AWS 01.1 OF THE AMERICAN WELDING SOCIETY.
 d. SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS (LATEST EDITION).

- FINISH:
 a. ALL STEEL TO BE HOT-DIPPED GALVANIZED

- MISCELLANEOUS:
 a. PROVIDE H

(3A)

PLAN DETAIL AT WALL CONST. JOINT SCALE: N.T.S. C-DETROI

NOTES:

1. NO VERTICAL CONSTRUCTION JOINT SHALL BE
WITHIN 5'-0" OF CORNER.

2. CONTRACTOR MAY PROVIDE DOWELS IN LIEU OF
90' STANDARD HOOK BUT MAINTAIN REQUIRED
CONCRETE COVER.

450 LAP FOR HORIZ. BARS

JOINT AT EXPOSED FACE. COORDINATE SHAPE WITH PC PANEL JOINTS

- a. PROVIDE HOLES FOR OTHERS. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWNINGS, OBTAIN PRIOR APPROVAL.

 b. STEEL BELOW GRADE TO BE PROTECTED BY A MINIMUM OF 4 INCHES CONCRETE COVER.

 c. EMBEDMENT LENGTH OF EXPANSION BOLTS INTO SOLID MASONRY OR CONCRETE SHALL BE 6 INCHES U.N.O..

CLASS

f'c, PSI

3000

4000 WITH

훍

400

REINFORCED CONCRETE MATERIALS:

a. SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI 301-99 "SPECIFICATIONS
FOR STRUCTURAL CONCRETE FOR BUILDINGS."
 b. STRUCTURAL CONCRETE. (USE CRUSHED LIMESTONE FOR COARSE AGGREGATE.)

O INDODTANCE EACTOR	1. WIND SPEED	WIND LOADS	3. LATERAL LOADS	SNOW EXPOSURE FACTOR (Ce)	IMPORTANCE FACTOR	1. GROUND SNOW LOAD	2. SNOW LOAD	1. CODE
-	80 MPH				1.0	10 PSF		SBC 1999

3B

FOUNDATION WALL CORNER REINF.

C-DET002

2 #7 EACH FACE FULL LENGTH OF WALL. TYP.

CORNER BAR SAME SIZE AND NUMBER AS HORIZ REINFORCING

2'-0" LAP

2'-0" LAP

STANDARD 90" HOOKS

PROVIDE TYP. VERT. BARS AT HORZ. BAR INTERSECTIONS

FOOTINGS/MATS:
 PROVIDE DOWELS IN FOOTINGS/MATS TO MATCH VERTICAL DOWELS IN WALLS.
 PROVIDE LEAN CONCRETE (CLASS IV) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.

SPLICES: UNLESS NOTED OTHERWISE, MINIMUM LAP SPLICE LENGTHS TO BE AS FOLLOWS:

HORIZONTAL AND VERTICAL BARS

CONTINGENCIES:

a. PROVIDE SUPPORTS AS REQUIRED TO MAINTAIN ALIGNMENT OF SCHEDULED REINFORCING. SUCH SUPPORTS ARE TO BE REFLECTED IN THE BID, AND ARE NOT PART OF THE CONTINGENCY QUANTITY LISTED BELOW.

<

BACKFILL BELOW FOOTINGS

1500

WALLS, FOOTINGS, EXTERIOR SLAB ON GRADE AND ALL EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED

NOT USED NOT USED

DEAD LOAD	4. GRAVITY LOADS	 WIND SPEED IMPORTANCE FACTOR
		ACTOR

48 DIAMETERS

GROUND LEVEL LIVE LOAD	LIVE LOAD	COLLATERAL LOAD	DEAD LOAD	4. GRAVITY LUAUS

PEAK ACCELERATION, AU
PEAK VELOCITY, AV
SEISMIC HAZARD EXPOSURE GROUP
SEISMIC PERFORMANCE CATEGORY

0.195 0.195

CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS:

a. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES b. CONCRETE EXPOSED TO EARTH OR WEATHER:

#5 BARS AND SMALLER

2 INCHES OTHERS

Ģ

SEISMIC LOADS

PROVIDE 1" CHAMFER AT ALL EXPOSED CORNERS

CONSTRUCTION JOINTS:

a. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE CONTRACTING OFFICER. ALL CONSTRUCTION JOINTS ARE TO BE KEYED. METAL KEYWAYS ARE NOT PERMISSIBLE.

SOIL PROFILE TYPE
BASIC STRUCTURAL AND SEISMIC SYSTEM
RESPONSE MODIFICATION FACTOR, R
DEFLECTION AMPLIFICATION FACTOR, Cd
ANALYSIS PROCEDURE UTILIZED S4, S=2.0 REINFORCED EQUIVALENT LATERAL FORCE

CONCRETE SHEAR WALL

(2) #7 EACH, FACE, 8'-0" LONG, TYP.

40'-0" MAX. TO NEXT CONSTRUCTION JOINT

6" MAX. TO 1ST -VERTICAL BAR

t/3

6" PVC WATER STOP CENTERED IN WALL, TYP.

FOUNDATION NOTES

- FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF. ALLOWABLE BEARING PRESSURE TO ERIFIED IN THE FIELD BY THE CONTRACTOR'S SOILS ENGINEER. THE CONTRACTOR'S SOILS ENGINEER SHALL ALSO VERIFY THAT THE SOIL IS SUITABLE FOR PLACEMENT OF THE FOUNDATION SYSTEM AND THAT MAXIMUM SETTLEMENT IS 1" AND MAXIMUM DIFFERENTIAL SETTLEMENT IS 1/2".
- EXCAVATIONS ARE ASSUMED TO BE LAID BACK TO A 1 TO 1 SLOPE. IF REQUIRED SHEETING OR SHORING TO BE INSTALLED TO MAINTAIN THE 1 TO 1 SLOPE. KEEP ALL EXCAVATIONS FREE OF WATER.
- SEE HVAC, PLUMBING & ARCHITECTURAL DRAWINGS FOR ALL FLOOR SLOPES, PLACING SLABS. DEPRESSIONS, ETC. VERIFY ALL INFORMATION PRIOR TO START OF WORK.

Ņ

DESIGN LOADS

Dead Load Collateral Load Live Load Ground Level Live Load	4. GRAVITY LOADS	WIND LOADS 1. WIND SPEED 2. IMPORTANCE FACTOR	3. LATERAL LOADS	 GROUND SNOW LOAD IMPORTANCE FACTOR SNOW EXPOSURE FACTOR (Ce) 	2. SNOW LOAD
SELFWEIGHT OF STRUCTURE 10 PSF 20 PSF 100 PSF OR 50 PSF + EQUIPMENT LOADS		80 MPH 1.0		10 PSF 1.0 1.0	

0 COI	
UNTY: AMP C DESOT	

REEK INTERCEPTOR NORTH REGIONAL UTILITY AUTHORITY



|--|

TYP. OPENING IN CONCRETE WALL SCALE: N.T.S.

9006
10000057
DESOTO CO UPPER C

DESIGNE YAS

OCTOBER 2003 SCALE AS SHOWN

DRAWN AC

EAMWEI, LLC